

FILE 'HOME' ENTERED AT 16:46:43 ON 14 MAY 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:46:51 ON 14 MAY 2003

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STRUCTURE FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

DICTIONARY FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s (0.01-2)/Li and (1-2)/Co and 1/P and 4/O

89785 (0.01-2)/LI

298916 (1-2)/CO

828392 1/P

3066347 4/O

L1 163 (0.01-2)/LI AND (1-2)/CO AND 1/P AND 4/O

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.68

17.89

FILE 'CAPLUS' ENTERED AT 16:47:58 ON 14 MAY 2003

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FILE COVERS 1907 - 14 May 2003 VOL 138 ISS 20

FILE LAST UPDATED: 13 May 2003 (20030513/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1

L2 89 L1

=> s l2 and cathode

147752 CATHODE

L3 42 L2 AND CATHODE

=> s l2 and battery

98904 BATTERY

L4 45 L2 AND BATTERY

=> d l4 1-45 ibib

L4 ANSWER 1 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:97868 CAPLUS

DOCUMENT NUMBER: 138:140078

TITLE: Alkali/transition metal halo- and hydroxy-phosphates  
and related electrode active materials

INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.

PATENT ASSIGNEE(S): UK

SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S.  
6,387,568.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003027049	A1	20030206	US 2001-14822	20011026
US 6387568	B1	20020514	US 2000-559861	20000427
US 2002168573	A1	20021114	US 2002-133091	20020426
WO 2003038930	A2	20030508	WO 2002-US33510	20021018

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,  
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-559861 A2 20000427  
US 2001-14822 A 20011026

L4 ANSWER 2 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:92339 CAPLUS

DOCUMENT NUMBER: 138:125008

TITLE: Cathode materials for secondary lithium batteries

INVENTOR(S): Armand, Michel; Goodenough, John B.; Padhi, Akshaya

K.; Nanjundaswamy, Kirakodu S.; Masquelier, Christian

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: U.S., 21 pp., Cont.-in-part of U.S. 5,910,382.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6514640	B1	20030204	US 1997-998264	19971224
US 5910382	A	19990608	US 1997-840523	19970421
US 6391493	B1	20020521	US 1999-298080	19990423
US 2003082454	A1	20030501	US 2002-307346	20021202
PRIORITY APPLN. INFO.:			US 1996-16060P	P 19960423
			US 1996-32346P	P 19961204
			US 1997-840523	A2 19970421
			US 1997-998264	A1 19971224
REFERENCE COUNT:	9	THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 3 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2003:42884 CAPLUS  
 DOCUMENT NUMBER: 138:92874  
 TITLE: Alkali/transition metal halo- and hydroxy-phosphates and related electrode active materials  
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffery L.  
 PATENT ASSIGNEE(S): UK  
 SOURCE: U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U. S. 6,387,568.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003013019	A1	20030116	US 2001-45685	20011107
US 6387568	B1	20020514	US 2000-559861	20000427
US 2002168573	A1	20021114	US 2002-133091	20020426
PRIORITY APPLN. INFO.:			US 2000-559861	A2 20000427

L4 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:928099 CAPLUS  
 DOCUMENT NUMBER: 138:6481  
 TITLE: Process for producing carbon-containing lithium-iron composite phosphorus oxide for lithium secondary battery cathode active material  
 INVENTOR(S): Kohzaki, Masao; Takeuchi, Youji; Ukyo, Yoshio  
 PATENT ASSIGNEE(S): Kabushiki Kaisha Toyota Chuo Kenkyusho, Japan  
 SOURCE: U.S. Pat. Appl. Publ., 11 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002182497	A1	20021205	US 2002-143946	20020514
JP 2003034534	A2	20030207	JP 2002-132603	20020508
PRIORITY APPLN. INFO.:			JP 2001-145396	A 20010515

L4 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:927780 CAPLUS  
 DOCUMENT NUMBER: 138:26878  
 TITLE: Anode and cathode materials for sodium ion batteries  
 INVENTOR(S): Barker, Jeremy; Yazid, Saidi M.; Swoyer, Jeffrey L.  
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA  
 SOURCE: PCT Int. Appl., 77 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002097907	A2	20021205	WO 2002-US10775	20020404
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002192553	A1	20021219	US 2002-115787	20020404
PRIORITY APPLN. INFO.:		US 2001-283560P P 20010406		

L4 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:904470 CAPLUS  
DOCUMENT NUMBER: 137:372594  
TITLE: Lithium transition-metal phosphate powder for rechargeable batteries  
PATENT ASSIGNEE(S): N.V. Umicore S.A., Belg.; Centre National de la Recherche Scientifique  
SOURCE: Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1261050	A1	20021127	EP 2001-401374	20010523
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002099913	A1	20021212	WO 2002-EP5714	20020522
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:		EP 2001-401374 A 20010523		
REFERENCE COUNT: 5		THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L4 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:791980 CAPLUS  
DOCUMENT NUMBER: 137:313504  
TITLE: Preparation and use of binary, ternary, and quaternary lithium iron phosphates for use as cathodes in lithium secondary batteries  
INVENTOR(S): Hemmer, Reinhard P.; Arnold, Giesela; Vogler, Christian; Wohlfahrt-Mehrens, Margret  
PATENT ASSIGNEE(S): Zentrum fuer Sonnenenergie- und Wasserstoff-Forschung

SOURCE: Baden-Wuerttemberg Gemeinnuetzige Stiftung, Germany  
Ger. Offen., 2 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10117904	A1	20021017	DE 2001-10117904	20010410
WO 2002083555	A2	20021024	WO 2002-DE1323	20020410
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			DE 2001-10117904 A 20010410	

L4 ANSWER 8 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:752479 CAPLUS  
DOCUMENT NUMBER: 137:281841  
TITLE: Cathode active material for nonaqueous electrolyte secondary **battery**  
INVENTOR(S): Morishima, Hideaki; Yamada, Shuji; Kanai, Hideyuki  
PATENT ASSIGNEE(S): Kabushiki Kaisha Toshiba, Japan  
SOURCE: Eur. Pat. Appl., 29 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1246290	A2	20021002	EP 2002-252168	20020326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003054253	A1	20030320	US 2002-102705	20020322
JP 2002358965	A2	20021213	JP 2002-87051	20020326
PRIORITY APPLN. INFO.:			JP 2001-87038 A 20010326	

L4 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:663332 CAPLUS  
DOCUMENT NUMBER: 138:41900  
TITLE: Improvement of the electrochemical performance of LiCoPO<sub>4</sub> 5 V material using a novel synthesis  
AUTHOR(S): Lloris, J. M.; Perez Vicente, C.; Tirado, J. L.  
CORPORATE SOURCE: Laboratorio de Quimica Inorganica, Universidad de Cordoba, Cordoba, 14071, Spain  
SOURCE: Electrochemical and Solid-State Letters (2002), 5(10), A234-A237  
CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:573514 CAPLUS  
 DOCUMENT NUMBER: 137:143023  
 TITLE: secondary nonaqueous electrolyte **battery**  
 INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko  
 PATENT ASSIGNEE(S): Denso Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002216770	A2	20020802	JP 2001-13581	20010122
PRIORITY APPLN. INFO.:			JP 2001-13581	20010122

L4 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:573500 CAPLUS  
 DOCUMENT NUMBER: 137:143013  
 TITLE: Secondary nonaqueous-electrolyte **battery**  
 with cathode containing phosphoric acid compound  
 INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko  
 PATENT ASSIGNEE(S): Denso Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002216755	A2	20020802	JP 2001-13594	20010122
PRIORITY APPLN. INFO.:			JP 2001-13594	20010122

L4 ANSWER 12 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:518137 CAPLUS  
 DOCUMENT NUMBER: 137:96241  
 TITLE: Powdery cathode active mass including olivine  
 structure and secondary nonaqueous electrolyte lithium  
**battery** using it  
 INVENTOR(S): Nakamura, Masaya; Saito, Hirohiko  
 PATENT ASSIGNEE(S): Denso Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002198050	A2	20020712	JP 2000-397537	20001227
PRIORITY APPLN. INFO.:			JP 2000-397537	20001227

L4 ANSWER 13 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:428819 CAPLUS  
 DOCUMENT NUMBER: 137:8642  
 TITLE: Methods of making lithium metal compounds useful as  
 cathode active materials in batteries  
 INVENTOR(S): Barker, Jeremy; Yazid, Saidi M.; Swoyer, Jeffrey L.  
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA  
 SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044084	A2	20020606	WO 2001-US43633	20011119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002017799	A5	20020611	AU 2002-17799	20011119
PRIORITY APPLN. INFO.:			US 2000-724085	A1 20001128
			WO 2001-US43633	W 20011119

L4 ANSWER 14 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:292205 CAPLUS  
DOCUMENT NUMBER: 136:328153  
TITLE: Nonaqueous electrolyte **battery** containing complex lithium oxide positive electrode with olivine crystal structure  
INVENTOR(S): Fukushima, Gen; Hosoya, Mamoru; Hisayama, Junji; Takahashi, Kimio; Sato, Atsushi; Okawa, Takeshi  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002117903	A2	20020419	JP 2000-306878	20001005
PRIORITY APPLN. INFO.:			JP 2000-306878	20001005

L4 ANSWER 15 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:292166 CAPLUS  
DOCUMENT NUMBER: 136:328120  
TITLE: Nonaqueous electrolyte secondary **battery** with lithium complex oxide positive electrode mix additionally containing lithium carbonate for improved charge-discharge cycle characteristic at high temperature  
INVENTOR(S): Hosoya, Mamoru; Fukushima, Gen  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002117843	A2	20020419	JP 2000-306875	20001005
PRIORITY APPLN. INFO.:			JP 2000-306875	20001005

L4 ANSWER 16 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272915 CAPLUS

DOCUMENT NUMBER: 136:297401

TITLE: Nonaqueous electrolyte **battery** with high discharge capacity

INVENTOR(S): Sakai, Hidecki; Fukushima, Yuzuru; Kuyama, Junji; Hosoya, Mamoru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195838	A2	20020410	EP 2001-123895	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117908	A2	20020419	JP 2000-308303	20001006
CN 1348230	A	20020508	CN 2001-130350	20010930
US 2002150816	A1	20021017	US 2001-971912	20011005
PRIORITY APPLN. INFO.:			JP 2000-308303 A	20001006

L4 ANSWER 17 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272914 CAPLUS

DOCUMENT NUMBER: 136:297400

TITLE: Nonaqueous electrolyte secondary **battery** using olivinic lithium phosphorus oxide cathode active material

INVENTOR(S): Okawa, Tsuyoshi; Hosoya, Mamoru; Kuyama, Junji; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195837	A2	20020410	EP 2001-123893	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117907	A2	20020419	JP 2000-308302	20001006
CN 1350342	A	20020522	CN 2001-139303	20010930
US 2002106563	A1	20020808	US 2001-972375	20011005
PRIORITY APPLN. INFO.:			JP 2000-308302 A	20001006

L4 ANSWER 18 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272913 CAPLUS

DOCUMENT NUMBER: 136:297399

TITLE: Nonaqueous electrolyte secondary **battery** with a compound of an olivinic structure as a cathode active material

INVENTOR(S): Okawa, Tsuyoshi; Hosoya, Mamoru; Kuyama, Junji; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent



LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195836	A2	20020410	EP 2001-123892	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117833	A2	20020419	JP 2000-308301	20001006
CN 1349266	A	20020515	CN 2001-142412	20010930
US 2002106564	A1	20020808	US 2001-972395	20011005
PRIORITY APPLN. INFO.:			JP 2000-308301 A	20001006

L4 ANSWER 19 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:272912 CAPLUS  
DOCUMENT NUMBER: 136:297398  
TITLE: Cathode and anode materials for solid nonaqueous electrolyte **battery**  
INVENTOR(S): Takahashi, Kimio; Hosoya, Mamoru; Miyake, Masami  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: Eur. Pat. Appl., 22 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195835	A2	20020410	EP 2001-123773	20011004
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117902	A2	20020419	JP 2000-306877	20001005
CN 1348231	A	20020508	CN 2001-138524	20010930
PRIORITY APPLN. INFO.:			JP 2000-306877 A	20001005

L4 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:272909 CAPLUS  
DOCUMENT NUMBER: 136:297395  
TITLE: Method for fabrication of cathode active material and a nonaqueous electrolyte **battery**  
INVENTOR(S): Hosoya, Mamoru; Fukushima, Yuzuru; Sakai, Hidecki; Kuyama, Junji  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: Eur. Pat. Appl., 31 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195827	A2	20020410	EP 2001-123894	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117848	A2	20020419	JP 2000-308300	20001006
JP 2002117849	A2	20020419	JP 2000-308313	20001006
US 2002124386	A1	20020912	US 2001-966918	20010928
CN 1360353	A	20020724	CN 2001-138169	20010930
PRIORITY APPLN. INFO.:			JP 2000-308300 A	20001006
			JP 2000-308313 A	20001006

L4 ANSWER 21 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:272908 CAPLUS  
DOCUMENT NUMBER: 136:297394  
TITLE: Solid electrolyte cell  
INVENTOR(S): Goto, Shuji; Hosoya, Mamoru; Endo, Takahiro  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: Eur. Pat. Appl., 16 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1195826	A2	20020410	EP 2001-123774	20011004
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117844	A2	20020419	JP 2000-306876	20001005
US 2002094481	A1	20020718	US 2001-966864	20010928
CN 1349273	A	20020515	CN 2001-139323	20010930
PRIORITY APPLN. INFO.:			JP 2000-306876 A	20001005

L4 ANSWER 22 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:256757 CAPLUS  
DOCUMENT NUMBER: 136:282003  
TITLE: Lithium-based cathode active materials for rechargeable lithium **battery** and preparation thereof  
INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.  
PATENT ASSIGNEE(S): UK  
SOURCE: U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U. S. Ser. No. 484,799.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002039687	A1	20020404	US 2001-908480	20010718
WO 2001054212	A1	20010726	WO 2000-US35302	20001222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1309021	A2	20030507	EP 2003-2687	20001222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-484799 A2	20000118
			WO 2000-US35302 W	20001222
			EP 2000-993800 A3	20001222

L4 ANSWER 23 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:210458 CAPLUS  
DOCUMENT NUMBER: 137:96186  
TITLE: Characterization of phospho-olivines as materials for Li-ion cell cathodes

AUTHOR(S): Piana, M.; Arrabito, M.; Bodoardo, S.; D'Epifanio, A.;  
 CORPORATE SOURCE: Dipartimento di Scienza dei Materiali ed Ingegneria  
 Chimica, Politecnico di Torino, Turin, 10129, Italy  
 SOURCE: Ionics (2002), 8(1 & 2), 17-26  
 CODEN: IONIFA; ISSN: 0947-7047  
 PUBLISHER: Institute for Ionics  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:796402 CAPLUS  
 DOCUMENT NUMBER: 135:346863  
 TITLE: Cathode active material for nonaqueous electrolyte  
**battery**  
 INVENTOR(S): Li, Guohua; Yamada, Atsuo  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 47 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1150367	A2	20011031	EP 2001-109945	20010424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001307731	A2	20011102	JP 2000-128999	20000425
JP 2001307732	A2	20011102	JP 2000-129000	20000425
CA 2344903	AA	20011025	CA 2001-2344903	20010423
CN 1322023	A	20011114	CN 2001-121243	20010425
US 2001055718	A1	20011227	US 2001-842483	20010425
PRIORITY APPLN. INFO.:			JP 2000-128999	A 20000425
			JP 2000-129000	A 20000425

L4 ANSWER 25 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:521189 CAPLUS  
 DOCUMENT NUMBER: 135:109692  
 TITLE: Secondary nonaqueous electrolyte lithium  
**battery** using improved anode and cathode  
 materials  
 INVENTOR(S): Iguchi, Takaaki; Kuratomi, Junichi; Kuwana, Koji  
 PATENT ASSIGNEE(S): Yuasa Battery Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001196061	A2	20010719	JP 2000-6070	20000111
PRIORITY APPLN. INFO.:			JP 2000-6070	20000111

L4 ANSWER 26 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:225610 CAPLUS  
 DOCUMENT NUMBER: 134:254632  
 TITLE: Secondary lithium batteries using lithium iron  
 phosphate cathodes

INVENTOR(S): Takahashi, Masaya; Tobishima, Shinichi; Takei, Koji;  
Sakurai, Yoji  
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001085010	A2	20010330	JP 1999-261394	19990916
PRIORITY APPLN. INFO.:			JP 1999-261394	19990916

L4 ANSWER 27 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:192597 CAPLUS  
DOCUMENT NUMBER: 134:210598  
TITLE: Preparation of lithium-containing phosphates for  
battery use  
INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid  
PATENT ASSIGNEE(S): Valence Technology, Inc., USA  
SOURCE: U.S., 13 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6203946	B1	20010320	US 1998-204944	19981203
US 2001021472	A1	20010913	US 2001-776843	20010205
PRIORITY APPLN. INFO.:			US 1996-717979	A1 19960923
			WO 1997-US15544	A1 19970904
			US 1998-204944	A1 19981203

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:134012 CAPLUS  
DOCUMENT NUMBER: 134:181076  
TITLE: Solid state secondary lithium batteries  
INVENTOR(S): Takada, Kazunori; Okada, Yumiko  
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001052733	A2	20010223	JP 1999-222436	19990805
PRIORITY APPLN. INFO.:			JP 1999-222436	19990805

L4 ANSWER 29 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:97142 CAPLUS  
DOCUMENT NUMBER: 134:283187  
TITLE: Cathodes properties of phospho-olivine for lithium  
secondary batteries  
AUTHOR(S): Okada, Shigeto; Sawa, Shoichiro; Egashira, Minato;  
Yamaki, Junichi

CORPORATE SOURCE: Institute of Advanced Material Study, Kyushu University, Japan  
 SOURCE: Kyushu Daigaku Kino Busshitsu Kagaku Kenkyusho Hokoku (2000), 14(2), 133-137  
 CODEN: KDBHFS; ISSN: 0914-3793  
 PUBLISHER: Kyushu Daigaku Kino Busshitsu Kagaku Kenkyusho  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 30 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:774123 CAPLUS  
 DOCUMENT NUMBER: 133:352634  
 TITLE: Electrode materials having increased surface conductivity  
 INVENTOR(S): Ravet, Nathalie; Besner, Simon; Simoneau, Martin; Vallee, Alain; Armand, Michel; Magnan, Jean-francois  
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.  
 SOURCE: Eur. Pat. Appl., 22 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1049182	A2	20001102	EP 2000-401207	20000502
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2307119	AA	20001030	CA 2000-2307119	20000428
JP 2001015111	A2	20010119	JP 2000-132779	20000501
US 2002195591	A1	20021226	US 2002-175794	20020621
PRIORITY APPLN. INFO.:			CA 1999-2270771	A 19990430
			US 2000-560572	B1 20000428

L4 ANSWER 31 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:398840 CAPLUS  
 DOCUMENT NUMBER: 133:61274  
 TITLE: Olivine LiMePO<sub>4</sub> (Me: Co, Cu) as 4.8 V and 2 V positive electrodes materials for lithium batteries  
 AUTHOR(S): Amine, K.; Yasuda, H.; Yamachi, M.  
 CORPORATE SOURCE: Chemical Technology Division, Argonne National Laboratory, Argonne, 60439-4837, Fr.  
 SOURCE: Proceedings - Electrochemical Society (2000), 99-25, 311-325  
 CODEN: PESODO; ISSN: 0161-6374  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:182737 CAPLUS  
 DOCUMENT NUMBER: 132:210149  
 TITLE: Olivine LiCoPO<sub>4</sub> as 4.8 V electrode material for lithium batteries  
 AUTHOR(S): Amine, K.; Yasuda, H.; Yamachi, M.  
 CORPORATE SOURCE: Chemical Technology Division, Argonne National Laboratory, Argonne, IL, 60439-4837, USA  
 SOURCE: Electrochemical and Solid-State Letters (2000), 3(4), 178-179

CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:498727 CAPLUS  
DOCUMENT NUMBER: 131:132296  
TITLE: Secondary lithium batteries  
INVENTOR(S): Takata, Kazunori; Fujino, Makoto; Iwamoto, Kazuya;  
Kondo, Shigeo  
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11219722	A2	19990810	JP 1998-21803	19980203
EP 933827	A1	19990804	EP 1999-300758	19990202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6322929	B1	20011127	US 1999-240689	19990202
PRIORITY APPLN. INFO.:			JP 1998-21803	A 19980203

L4 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:72205 CAPLUS  
DOCUMENT NUMBER: 130:170706  
TITLE: Lithium mixed oxide cathode active materials, cathodes  
using the materials, and lithium batteries using them  
INVENTOR(S): Amine, Khalil  
PATENT ASSIGNEE(S): Japan Storage Battery Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11025983	A2	19990129	JP 1997-215424	19970704
US 6319632	B1	20011120	US 1999-448504	19991124
US 2002039681	A1	20020404	US 2001-955906	20010920
PRIORITY APPLN. INFO.:			JP 1997-215424	A 19970704
			US 1999-448504	A3 19991124

L4 ANSWER 35 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:56858 CAPLUS  
DOCUMENT NUMBER: 130:156101  
TITLE: Secondary lithium batteries inhibiting lithium  
dendrite generation and electronic apparatus using the  
batteries  
INVENTOR(S): Ikgawa, Akiko; Tsuruoka, Shigeo; Takeuchi, Seiji;  
Yoshikawa, Masanori; Muranaka, Kiyoshi  
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent

LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11016571	A2	19990122	JP 1997-165588	19970623
PRIORITY APPLN. INFO.:			JP 1997-165588	19970623

L4 ANSWER 36 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1998:596036 CAPLUS  
DOCUMENT NUMBER: 129:205207  
TITLE: Secondary lithium batteries with lithium and magnesium containing oxide cathodes  
INVENTOR(S): Igawa, Akiko; Tsuruoka, Shigeo; Yoshikawa, Masanori; Muranaka, Kiyoshi; Komatsu, Yoshimi; Yamauchi, Shuko  
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10241691	A2	19980911	JP 1997-354358	19971224
PRIORITY APPLN. INFO.:			JP 1996-343041	19961224

L4 ANSWER 37 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1997:399649 CAPLUS  
DOCUMENT NUMBER: 127:37233  
TITLE: Nonaqueous electrolyte secondary batteries with alkali metal-containing phosphate cathodes  
INVENTOR(S): Okada, Shigeto; Arai, So; Masashiro, Takahisa; Otsuka, Hideaki; Sakurai, Yoji; Yamaki, Junichi  
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09134724	A2	19970520	JP 1995-311698	19951107
PRIORITY APPLN. INFO.:			JP 1995-311698	19951107

L4 ANSWER 38 OF 45 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1996:580063 CAPLUS  
DOCUMENT NUMBER: 125:200746  
TITLE: Secondary lithium batteries and their cathodes  
INVENTOR(S): Marumoto, Mitsuhiro; Takada, Yoshinori; Kizu, Kenichi  
PATENT ASSIGNEE(S): Mitsubishi Cable Ind Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 08171938 A2 19960702 JP 1994-334030 19941215  
PRIORITY APPLN. INFO.: JP 1994-334030 19941215

L4 ANSWER 39 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:721387 CAPLUS  
DOCUMENT NUMBER: 123:88488  
TITLE: Cathode materials for lithium batteries and their manufacture  
INVENTOR(S): Kamauchi, Masahiro; Takada, Yoshinori  
PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan  
SOURCE: PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9512900	A1	19950511	WO 1993-JP1686	19931117
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 07130357	A2	19950519	JP 1993-297405	19931102
JP 2966261	B2	19991025		
EP 680106	A1	19951102	EP 1994-900277	19931117
R: DE, FR, GB				
US 5614334	A	19970325	US 1995-481257	19950630
PRIORITY APPLN. INFO.:			JP 1993-297405	19931102
			WO 1993-JP1686	19931117

L4 ANSWER 40 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:459524 CAPLUS  
DOCUMENT NUMBER: 122:192402  
TITLE: Secondary nonaqueous batteries with lithium intercalating metal oxide anodes  
INVENTOR(S): Mishima, Masayuki  
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06318458	A2	19941115	JP 1993-106978	19930507
PRIORITY APPLN. INFO.:			JP 1993-106978	19930507

L4 ANSWER 41 OF 45 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:416344 CAPLUS  
DOCUMENT NUMBER: 122:165555  
TITLE: Secondary nonaqueous-electrolyte **battery**.  
INVENTOR(S): Miyasaka, Tsutomu  
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 20 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 630064	A1	19941221	EP 1994-106426	19940425
EP 630064	B1	19980715		
R: DE, FR, GB				
JP 06310143	A2	19941104	JP 1993-102931	19930428
JP 3230893	B2	20011119		
JP 07014579	A2	19950117	JP 1993-155426	19930625
JP 07029603	A2	19950131	JP 1993-174380	19930714
US 5478674	A	19951226	US 1994-233929	19940428
PRIORITY APPLN. INFO.:			JP 1993-102931	A 19930428
			JP 1993-155426	A 19930625
			JP 1993-174380	A 19930714

L4 ANSWER 42 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1994:704635 CAPLUS  
 DOCUMENT NUMBER: 121:304635  
 TITLE: Cathodes for lithium batteries  
 INVENTOR(S): Kamauchi, Masaharu  
 PATENT ASSIGNEE(S): Mitsubishi Cable Ind Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 06223832	A2	19940812	JP 1993-27644	19930121
JP 3266353	B2	20020318		
PRIORITY APPLN. INFO.:			JP 1993-27644	19930121

L4 ANSWER 43 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1994:222477 CAPLUS  
 DOCUMENT NUMBER: 120:222477  
 TITLE: Secondary lithium **battery**  
 INVENTOR(S): Kamauchi, Masahiro; Soejima, Hiroshi; Kubota, Shuji;  
 Sasaki, Kouzou  
 PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan  
 SOURCE: Can. Pat. Appl., 66 pp.  
 CODEN: CPXXEB  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CA 2096386	AA	19931119	CA 1993-2096386	19930517
JP 06275277	A2	19940930	JP 1993-116240	19930518
US 5538814	A	19960723	US 1995-374998	19950118
US 5705296	A	19980106	US 1995-473973	19950607
PRIORITY APPLN. INFO.:			JP 1992-124594	19920518
			JP 1992-223068	19920821
			JP 1992-258537	19920928
			JP 1992-271944	19921009
			JP 1992-271945	19921009
			JP 1992-271943	19921009
			JP 1992-271947	19921009
			JP 1993-27646	19930121
			US 1993-61240	19930517
			US 1995-374998	19950118

L4 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1994:168824 CAPLUS

DOCUMENT NUMBER: 120:168824  
 TITLE: Secondary lithium **battery**  
 INVENTOR(S): Kamauchi, Masahiro; Soejima, Hiroshi; Kubota, Shuji;  
 Sasaki, Kouzou  
 PATENT ASSIGNEE(S): Mitsubishi Cable Industries, Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 571858	A1	19931201	EP 1993-108004	19930517
EP 571858	B1	19960814		
R: DE, FR, GB				
JP 06275277	A2	19940930	JP 1993-116240	19930518
US 5538814	A	19960723	US 1995-374998	19950118
US 5705296	A	19980106	US 1995-473973	19950607
PRIORITY APPLN. INFO.:			JP 1992-124594	19920518
			JP 1992-223068	19920821
			JP 1992-258537	19920928
			JP 1992-271943	19921009
			JP 1992-271944	19921009
			JP 1992-271945	19921009
			JP 1992-271947	19921009
			JP 1993-27646	19930121
			US 1993-61240	19930517
			US 1995-374998	19950118

L4 ANSWER 45 OF 45 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1992:637170 CAPLUS  
 DOCUMENT NUMBER: 117:237170  
 TITLE: Cathode active material for secondary  
 nonaqueous-electrolyte **battery**  
 INVENTOR(S): Tahara, Kensuke; Ishikawa, Hideki; Sakai, Tsugio  
 PATENT ASSIGNEE(S): Seiko Electronic Components Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 32 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 484187	A2	19920506	EP 1991-310178	19911104
EP 484187	A3	19920902		
EP 484187	B1	19960207		
EP 484187	B2	19991201		
R: DE, FR, GB				
JP 05054889	A2	19930305	JP 1991-253921	19911001
JP 3162437	B2	20010425		
US 5286582	A	19940215	US 1991-786431	19911101
PRIORITY APPLN. INFO.:			JP 1990-298213	A 19901102
			JP 1990-405204	A 19901221
			JP 1990-405205	A 19901221
			JP 1991-92462	A 19910423
			JP 1991-107677	A 19910513
			JP 1991-139246	A 19910611
			JP 1991-253921	A 19911001

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	49.64	67.53

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Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7  
 DICTIONARY FILE UPDATES: 13 MAY 2003 HIGHEST RN 514787-08-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 27, Searching Properties  
 in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> s (0.01-2)/Li and (1-2)/Fe and 1/P and 4/O
      89785 (0.01-2)/LI
      677554 (1-2)/FE
      828392 1/P
      3066347 4/O
L5      297 (0.01-2)/LI AND (1-2)/FE AND 1/P AND 4/O
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=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	17.28	84.81

FILE 'CAPLUS' ENTERED AT 16:49:37 ON 14 MAY 2003  
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FILE COVERS 1907 - 14 May 2003 VOL 138 ISS 20  
 FILE LAST UPDATED: 13 May 2003 (20030513/ED)

This file contains CAS Registry Numbers for easy and accurate  
 substance identification.

=> s 15

L6 353 L5

=> s l6 and cathode

147752 CATHODE

L7 113 L6 AND CATHODE

=> s l7 not l4

L8 89 L7 NOT L4

=> d l8 1-89 ibib

L8 ANSWER 1 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:118176 CAPLUS

DOCUMENT NUMBER: 138:156303

TITLE: Manufacture of **cathode** material for  
secondary battery and the battery

INVENTOR(S): Okada, Shigeto; Yamaki, Junichi; Hatta, Naoki

PATENT ASSIGNEE(S): Mitsui Engineering & Shipbuilding Co., Ltd., Japan

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003012899	A1	20030213	WO 2002-JP7779	20020731
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: JP 2001-231538 A 20010731

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:97210 CAPLUS

DOCUMENT NUMBER: 138:156270

TITLE: Secondary lithium battery

INVENTOR(S): Kanzaki, Masao; Ukyo, Yoshio

PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories,  
Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003036889	A2	20030207	JP 2002-139900	20020515

PRIORITY APPLN. INFO.: JP 2001-145400 A 20010515

L8 ANSWER 3 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:40437 CAPLUS

DOCUMENT NUMBER: 138:109577  
TITLE: Solid secondary lithium battery  
INVENTOR(S): Ogata, Naoya; Sata, Tsutomu  
PATENT ASSIGNEE(S): Torekion K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003017121	A2	20030117	JP 2001-200782	20010702
PRIORITY APPLN. INFO.:			JP 2001-200782	20010702

L8 ANSWER 4 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2003:40395 CAPLUS  
DOCUMENT NUMBER: 138:92834  
TITLE: Nonaqueous-electrolyte battery with aluminum or aluminum alloy anode  
INVENTOR(S): Takami, Norio; Ishii, Haruyoshi  
PATENT ASSIGNEE(S): Toshiba Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003017058	A2	20030117	JP 2001-202128	20010703
PRIORITY APPLN. INFO.:			JP 2001-202128	20010703

L8 ANSWER 5 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2003:40394 CAPLUS  
DOCUMENT NUMBER: 138:92833  
TITLE: Lithium vanadium mixed oxide and its manufacture for anode in secondary aqueous lithium battery  
INVENTOR(S): Sasaki, Iwao; Ukyo, Yoshio; Nakano, Hideyuki; Kanzaki, Masao  
PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003017057	A2	20030117	JP 2001-201303	20010702
PRIORITY APPLN. INFO.:			JP 2001-201303	20010702

L8 ANSWER 6 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:936890 CAPLUS  
DOCUMENT NUMBER: 138:140005  
TITLE: Preparation of iron phosphate cathode material of  $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$  by hydrothermal reaction and thermal decomposition processes  
AUTHOR(S): Sato, Mineo; Tajimi, Shigehisa; Okawa, Hirokazu; Uematsu, Kazuyoshi; Toda, Kenji

CORPORATE SOURCE: Department of Chemistry and Chemical Engineering,  
Niigata University, Faculty of Engineering, Niigata,  
950-2181, Japan  
SOURCE: Solid State Ionics (2002), 152-153, 247-251  
CODEN: SSIOD3; ISSN: 0167-2738  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:794447 CAPLUS  
DOCUMENT NUMBER: 138:41938  
TITLE: Electronically conductive phospho-olivines as lithium  
storage electrodes  
AUTHOR(S): Chung, Sung-Yoon; Bloking, Jason T.; Chiang, Yet-Ming  
CORPORATE SOURCE: Department of Materials Science and Engineering,  
Massachusetts Institute of Technology, Cambridge, MA,  
02139, USA  
SOURCE: Nature Materials (2002), 1(2), 123-128  
CODEN: NMAACR; ISSN: 1476-1122  
PUBLISHER: Nature Publishing Group  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:781946 CAPLUS  
DOCUMENT NUMBER: 138:290280  
TITLE: X-Ray Absorption Study of  $\text{Li}_x\text{Mn}_y\text{Fe}_{1-y}\text{PO}_4$  (0  $\leq x \leq 1$ , 0  $\leq y \leq 1$ )  
AUTHOR(S): Li, Guohua; Kudo, Yoshihiro; Liu, Kuang-Yu; Azuma,  
Hideto; Tohda, Masayuki  
CORPORATE SOURCE: Sony Corporation, Nishi Battery Laboratories,  
Kanagawa, 243-0021, Japan  
SOURCE: Journal of the Electrochemical Society (2002),  
149(11), A1414-A1418  
CODEN: JESOAN; ISSN: 0013-4651  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:734259 CAPLUS  
DOCUMENT NUMBER: 137:265592  
TITLE: secondary lithium battery  
INVENTOR(S): Fujita, Shigeru; Akashi, Hiroyuki; Adachi, Momoe;  
Shibamoto, Goro  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002279989	A2	20020927	JP 2001-77086	20010316
PRIORITY APPLN. INFO.:			JP 2001-77086	20010316

L8 ANSWER 10 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:716669 CAPLUS  
 DOCUMENT NUMBER: 137:250290  
 TITLE: **Cathode** compositions and their use,  
 particularly in batteries  
 INVENTOR(S): Ravet, Nathalie; Armand, Michel  
 PATENT ASSIGNEE(S): Universite de Montreal, Can.; Centre National de la  
 Recherche Scientifique  
 SOURCE: PCT Int. Appl., 16 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002073716	A2	20020919	WO 2002-CA341	20020313
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			CA 2001-2340798	A 20010313

L8 ANSWER 11 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:693416 CAPLUS  
 DOCUMENT NUMBER: 137:235203  
 TITLE: Secondary lithium battery  
 INVENTOR(S): Sasaki, Iwao; Ukyo, Yoshio; Nakano, Hideyuki; Kanzaki,  
 Masao  
 PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories,  
 Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002260722	A2	20020913	JP 2001-53831	20010228
PRIORITY APPLN. INFO.:			JP 2001-53831	20010228

L8 ANSWER 12 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:635102 CAPLUS  
 DOCUMENT NUMBER: 138:58795  
 TITLE: Research progress in **cathode** materials of  
 Li-ion battery  
 AUTHOR(S): Chen, Li-quan  
 CORPORATE SOURCE: Lab for Solid State Ionic, Institute of Physics,  
 Chinese Academy of Sciences, Beijing, 100080, Peop.  
 Rep. China  
 SOURCE: Dianchi (2002), 32(Suppl.), 6-8  
 CODEN: DNCHEP; ISSN: 1001-1579  
 PUBLISHER: Dianchi Zazhishe  
 DOCUMENT TYPE: Journal

LANGUAGE: Chinese

L8 ANSWER 13 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:604575 CAPLUS

DOCUMENT NUMBER: 138:26782

TITLE: Reducing carbon in  $\text{LiFePO}_4/\text{C}$  composite electrodes to maximize specific energy, volumetric energy, and tap density

AUTHOR(S): Chen, Zhaohui; Dahn, J. R.

CORPORATE SOURCE: Department of Physics, Dalhousie University, Halifax, NS, B3H 3J5, Can.

SOURCE: Journal of the Electrochemical Society (2002), 149(9), A1184-A1189

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:600543 CAPLUS

DOCUMENT NUMBER: 138:207619

TITLE: New **cathode** materials for lithium secondary battery

AUTHOR(S): Takeda, Yasuo; Imanishi, Masayuki; Hirano, Atsushi

CORPORATE SOURCE: Dept. of Engineering, Mie University, Mie, Tsu, Kamihama, 514-8507, Japan

SOURCE: Materials Integration (2002), 15(6), 14-19

CODEN: MINTFB; ISSN: 1344-7858

PUBLISHER: Ti, Ai, Shi

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

L8 ANSWER 15 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:558477 CAPLUS

DOCUMENT NUMBER: 138:92665

TITLE: A neutron powder diffraction study of electrochemically lithiated  $\text{R-Li}_{3+x}\text{Fe}_2(\text{PO}_4)_3$  for  $x = 1.8$

AUTHOR(S): Eyob, Paulos; Andersson, Anna S.; Thomas, John O.

CORPORATE SOURCE: Department of Materials Chemistry, Angstrom Laboratory, Uppsala University, Uppsala, SE-751 21, Swed.

SOURCE: Journal of Materials Chemistry (2002), 12(8), 2343-2347

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505613 CAPLUS

DOCUMENT NUMBER: 137:355365

TITLE: Optimized  $\text{LiMnFe}_1\text{-yPO}_4$  as the **cathode** for lithium batteries

AUTHOR(S): Li, Guohua; Azuma, Hideto; Tohda, Masayuki

CORPORATE SOURCE: Nishi Battery Laboratories, Sony Corporation, Atsugi, 243-0021, Japan

SOURCE: Journal of the Electrochemical Society (2002), 149(6), A743-A747

CODEN: JESOAN; ISSN: 0013-4651



PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 17 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:501776 CAPLUS  
DOCUMENT NUMBER: 137:313428  
TITLE: Nanocomposite electrodes for advanced lithium  
batteries: the LiFePO<sub>4</sub> **cathode**  
AUTHOR(S): Yang, Shoufeng; Song, Yanning; Zavalij, Peter Y.;  
Whittingham, M. Stanley  
CORPORATE SOURCE: Institute for Materials Research, Binghamton  
University, Binghamton, NY, 13902-1600, USA  
SOURCE: Materials Research Society Symposium Proceedings  
(2002), 703(Nanophase and Nanocomposite Materials IV),  
309-313  
CODEN: MRSPDH; ISSN: 0272-9172  
PUBLISHER: Materials Research Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 18 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:454726 CAPLUS  
DOCUMENT NUMBER: 137:281757  
TITLE: Olivine-type cathodes for lithium batteries  
AUTHOR(S): Yamada, A.; Hosoya, M.; Chung, S. C.; Hinokuma, K.;  
Kudo, Y.; Liu, K. Y.  
CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation,  
Yokohama, 240-0036, Japan  
SOURCE: Ceramic Transactions (2002), 127(Materials for  
Electrochemical Energy Conversion and Storage),  
189-203  
CODEN: CETREW; ISSN: 1042-1122  
PUBLISHER: American Ceramic Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 19 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:453091 CAPLUS  
DOCUMENT NUMBER: 137:235143  
TITLE: A New Synthetic Route for Preparing LiFePO<sub>4</sub> with  
Enhanced Electrochemical Performance  
AUTHOR(S): Prosini, Pier Paolo; Carewska, Maria; Scaccia,  
Silvera; Wisniewski, Pawel; Passerini, Stefano;  
Pasquali, Mauro  
CORPORATE SOURCE: Advanced Energy Technologies, ENEA, C.R. Casaccia,  
Rome, 00060, Italy  
SOURCE: Journal of the Electrochemical Society (2002), 149(7),  
A886-A890  
CODEN: JESOAN; ISSN: 0013-4651  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 20 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:449608 CAPLUS

DOCUMENT NUMBER: 137:22389  
 TITLE: Carbon-coated spinel-type Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> and metal-contg. Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> compositions as anodes for electrochemical generators  
 INVENTOR(S): Zaghib, Karim  
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.; Gauthier, Michel; Brochu, Fernand; Guerfi, Abdelbast; Masse, Monique; Armand, Michel  
 SOURCE: PCT Int. Appl., 59 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046101	A2	20020613	WO 2001-CA1714	20011203
WO 2002046101	A3	20020919		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002021410	A5	20020618	AU 2002-21410	20011203
PRIORITY APPLN. INFO.:			CA 2000-2327370	A 20001205
			WO 2001-CA1714	W 20011203

L8 ANSWER 21 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:447290 CAPLUS  
 DOCUMENT NUMBER: 137:35475  
 TITLE: Nonaqueous electrolyte battery  
 INVENTOR(S): Goto, Shuji  
 PATENT ASSIGNEE(S): Sony Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002170567	A2	20020614	JP 2000-369000	20001204
PRIORITY APPLN. INFO.:			JP 2000-369000	20001204

L8 ANSWER 22 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:401372 CAPLUS  
 DOCUMENT NUMBER: 137:172325  
 TITLE: Reaction behavior of LiFePO<sub>4</sub> as a **cathode** material for rechargeable lithium batteries  
 AUTHOR(S): Takahashi, Masaya; Tobishima, Shin-ichi; Takei, Koji; Sakurai, Yoji  
 CORPORATE SOURCE: NTT Telecommunications Energy Laboratories, Ibaraki-ken, Tokai-mura, Naka-gun, 319-1193, Japan  
 SOURCE: Solid State Ionics (2002), 148(3,4), 283-289  
 CODEN: SSIOD3; ISSN: 0167-2738  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 23 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:388569 CAPLUS  
DOCUMENT NUMBER: 136:372280  
TITLE: Lithium iron phosphate grain for **cathode**,  
its manufacture, and secondary battery using it  
INVENTOR(S): Higuchi, Shoji; Kamigakinai, Toshikazu; Fukui,  
Toshimi; Kobayashi, Makoto  
PATENT ASSIGNEE(S): Kansai Research Institute, Inc., Japan; TDK  
Corporation  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002151082	A2	20020524	JP 2000-382950	20001110
PRIORITY APPLN. INFO.:			JP 2000-382950	20001110

L8 ANSWER 24 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:372947 CAPLUS  
DOCUMENT NUMBER: 137:297251  
TITLE: A comparison of the electrode/electrolyte reaction at  
elevated temperatures for various Li-ion battery  
cathodes  
AUTHOR(S): MacNeil, D. D.; Lu, Zhonghua; Chen, Zhaohui; Dahn, J.  
R.  
CORPORATE SOURCE: Department of Chemistry, Dalhousie University,  
Halifax, NS, B3H 3J5, Can.  
SOURCE: Journal of Power Sources (2002), 108(1-2), 8-14  
CODEN: JPSODZ; ISSN: 0378-7753  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 25 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:368811 CAPLUS  
DOCUMENT NUMBER: 136:357523  
TITLE: **Cathode** active mass and battery using the  
active mass  
INVENTOR(S): Li, Guohua  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: PCT Int. Appl., 28 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002039523	A1	20020516	WO 2001-JP9747	20011107
W: CA, CN, KR, MX, US				
RW: DE, FI, FR, GB, SE				
JP 2002151072	A2	20020524	JP 2000-342410	20001109
US 2003064290	A1	20030403	US 2002-169454	20021007
PRIORITY APPLN. INFO.:			JP 2000-342410	A 20001109
			WO 2001-JP9747	W 20011107

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 26 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:327043 CAPLUS  
DOCUMENT NUMBER: 137:281726  
TITLE: Determination of the chemical diffusion coefficient of  
lithium in LiFePO4  
AUTHOR(S): Prosini, Pier Paolo; Lisi, Marida; Zane, Daniela;  
Pasquali, Mauro  
CORPORATE SOURCE: Dipartimento ICMMPM, Facolta di Ingegneria, Universita  
di Roma "La Sapienza", Rome, Italy  
SOURCE: Solid State Ionics (2002), 148(1,2), 45-51  
CODEN: SSIOD3; ISSN: 0167-2738  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 27 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:294036 CAPLUS  
DOCUMENT NUMBER: 136:312606  
TITLE: Method of fabrication of high performance lithium or  
lithium ion batteries  
INVENTOR(S): Dai, Dongli  
PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031905	A2	20020418	WO 2001-US30892	20011003
WO 2002031905	A3	20021003		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002011378	A5	20020422	AU 2002-11378	20011003
US 2003003369	A1	20030102	US 2002-223963	20020820
PRIORITY APPLN. INFO.:			US 2000-684206	A 20001006
			US 2000-199700P	P 20000426
			US 2000-205027P	P 20000518
			WO 2001-US30892	W 20011003

OTHER SOURCE(S): MARPAT 136:312606

L8 ANSWER 28 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:293286 CAPLUS  
DOCUMENT NUMBER: 136:312598  
TITLE: Manufacture of **cathode** active mass and  
secondary nonaqueous electrolyte battery  
INVENTOR(S): Hosoya, Mamoru; Fukushima, Gen  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002117831	A2	20020419	JP 2000-306879	20001005
PRIORITY APPLN. INFO.:			JP 2000-306879	20001005

L8 ANSWER 29 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:292162 CAPLUS  
DOCUMENT NUMBER: 136:312590  
TITLE: Manufacture of **cathode** active mass and  
nonaqueous electrolyte battery  
INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Gen  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002117837	A2	20020419	JP 2000-305352	20001004
PRIORITY APPLN. INFO.:			JP 2000-305352	20001004

L8 ANSWER 30 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:291865 CAPLUS  
DOCUMENT NUMBER: 136:312584  
TITLE: Method for preparation of **cathode** active  
material for nonaqueous lithium secondary battery  
INVENTOR(S): Sato, Atsushi; Kuyama, Junji; Fukushima, Yuzuru;  
Hosoya, Mamoru  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1198019	A2	20020417	EP 2001-123899	20011005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002117847	A2	20020419	JP 2000-308299	20001006
CN 1348226	A	20020508	CN 2001-130348	20010930
US 2002106562	A1	20020808	US 2001-970573	20011004
PRIORITY APPLN. INFO.:			JP 2000-308299	A 20001006

L8 ANSWER 31 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:288922 CAPLUS  
DOCUMENT NUMBER: 137:219425  
TITLE: 7Li and 31P magic angle spinning nuclear magnetic  
resonance of LiFePO4-type materials  
AUTHOR(S): Tucker, Michael C.; Doeff, Marca M.; Richardson,  
Thomas J.; Finones, Rita; Reimer, Jeffrey A.; Cairns,  
Elton J.  
CORPORATE SOURCE: Energy and Environmental Technologies Division, Ernest  
Orlando Lawrence Berkeley National Laboratory and

SOURCE: Department of Chemical Engineering, University of  
 California Berkeley, Berkeley, CA, 94720, USA  
 Electrochemical and Solid-State Letters (2002), 5(5),  
 A95-A98  
 CODEN: ESLEF6; ISSN: 1099-0062  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 32 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:288805 CAPLUS  
 DOCUMENT NUMBER: 137:49637  
 TITLE: On the way to the optimization of  $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$   
 positive electrode materials  
 AUTHOR(S): Morcrette, Mathieu; Wurm, Calin; Masquelier, Christian  
 CORPORATE SOURCE: Laboratoire de Reactivite et de Chimie des Solides,  
 Amiens, 80039, Fr.  
 SOURCE: Solid State Sciences (2002), 4(2), 239-246  
 CODEN: SSSCFJ; ISSN: 1293-2558  
 PUBLISHER: Editions Scientifiques et Medicales Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 33 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:273042 CAPLUS  
 DOCUMENT NUMBER: 136:312520  
 TITLE: Lithium ion battery  
 INVENTOR(S): Kamigaito, Toshikazu; Doi, Motoyuki  
 PATENT ASSIGNEE(S): TDK Corporation, Japan; Kansai Research Institute Inc.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002110221	A2	20020412	JP 2000-338286	20000929
PRIORITY APPLN. INFO.:			JP 2000-338286	20000929

L8 ANSWER 34 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:256645 CAPLUS  
 DOCUMENT NUMBER: 136:297382  
 TITLE: Carbon-coated or carbon-crosslinked redox materials  
 with transition metal-lithium oxide core for use as  
 battery electrodes  
 INVENTOR(S): Armand, Michel; Gauthier, Michel; Magnan,  
 Jean-Francois; Ravet, Nathalie  
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.  
 SOURCE: PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002027824	A1	20020404	WO 2001-CA1350	20010921

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001093569 A5 20020408 AU 2001-93569 20010921  
 PRIORITY APPLN. INFO.: CA 2000-2320661 A 20000926  
 WO 2001-CA1350 W 20010921

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 35 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:256644 CAPLUS

DOCUMENT NUMBER: 136:297381

TITLE: Method for synthesis of carbon-coated redox materials  
 with controlled size

INVENTOR(S): Armand, Michel; Gauhtier, Michel; Magnan,  
 Jean-Francois; Ravet, Nathalie

PATENT ASSIGNEE(S): Hydro-Quebec, Can.

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002027823	A1	20020404	WO 2001-CA1349	20010921

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001093568 A5 20020408 AU 2001-93568 20010921  
 PRIORITY APPLN. INFO.: CA 2000-2320661 A 20000926  
 WO 2001-CA1349 W 20010921

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 36 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:253129 CAPLUS

DOCUMENT NUMBER: 136:281939

TITLE: Nonaqueous electrolyte battery **cathode**  
 active material capable of reversibly doping/undoping  
 lithium

INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1193787	A2	20020403	EP 2001-123181	20010927
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002110161	A2	20020412	JP 2000-301399	20000929
US 2002114754	A1	20020822	US 2001-961895	20010924
CN 1350341	A	20020522	CN 2001-142556	20010929
PRIORITY APPLN. INFO.:			JP 2000-301399	A 20000929

L8 ANSWER 37 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:253128 CAPLUS  
 DOCUMENT NUMBER: 136:281938  
 TITLE: Nonaqueous electrolyte battery **cathode**  
 active material capable of reversibly doping/undoping  
 lithium  
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1193786	A2	20020403	EP 2001-123180	20010927
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002110163	A2	20020412	JP 2000-301401	20000929
US 2002061274	A1	20020523	US 2001-965273	20010927
CN 1349265	A	20020515	CN 2001-142532	20010929
PRIORITY APPLN. INFO.:			JP 2000-301401	A 20000929

L8 ANSWER 38 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:253127 CAPLUS  
 DOCUMENT NUMBER: 136:281937  
 TITLE: Nonaqueous electrolyte battery with **cathode**  
 active material capable of reversibly doping/undoping  
 lithium  
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1193785	A2	20020403	EP 2001-122769	20010921
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002110164	A2	20020412	JP 2000-301402	20000929
US 2002059719	A1	20020523	US 2001-956514	20010919
CN 1346159	A	20020424	CN 2001-138523	20010928
PRIORITY APPLN. INFO.:			JP 2000-301402	A 20000929

L8 ANSWER 39 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:253126 CAPLUS  
 DOCUMENT NUMBER: 136:265826  
 TITLE: Method for the preparation of **cathode** active  
 material for a nonaqueous electrolyte battery



INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1193784	A2	20020403	EP 2001-122752	20010921
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002110165	A2	20020412	JP 2000-301403	20000929
US 2002041998	A1	20020411	US 2001-961863	20010924
CN 1349264	A	20020515	CN 2001-142531	20010929
PRIORITY APPLN. INFO.:			JP 2000-301403	A 20000929

L8 ANSWER 40 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:253125 CAPLUS  
 DOCUMENT NUMBER: 136:265825  
 TITLE: Method for the preparation of **cathode** active material for a nonaqueous electrolyte battery  
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1193783	A2	20020403	EP 2001-122751	20010921
EP 1193783	A3	20030514		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002110162	A2	20020412	JP 2000-301400	20000929
US 2002102459	A1	20020801	US 2001-961862	20010924
CN 1346162	A	20020424	CN 2001-137901	20010929
PRIORITY APPLN. INFO.:			JP 2000-301400	A 20000929

L8 ANSWER 41 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:196333 CAPLUS  
 DOCUMENT NUMBER: 136:404204  
 TITLE: A novel concept for the synthesis of an improved LiFePO<sub>4</sub> lithium battery **cathode**  
 AUTHOR(S): Croce, F.; D'Epifanio, A.; Hassoun, J.; Deptula, A.; Olczac, T.; Scrosati, B.  
 CORPORATE SOURCE: Dipartimento di Chimica, Universita "La Sapienza", Rome, 00185, Italy  
 SOURCE: Electrochemical and Solid-State Letters (2002), 5(3), A47-A50  
 CODEN: ESLEF6; ISSN: 1099-0062  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 42 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:193285 CAPLUS

DOCUMENT NUMBER: 136:234678  
 TITLE: **Cathode** active materials, nonaqueous electrolyte batteries, and their manufacture  
 INVENTOR(S): Yamaura, Kiyoshi  
 PATENT ASSIGNEE(S): Sony Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002075368	A2	20020315	JP 2000-269035	20000905
PRIORITY APPLN. INFO.:			JP 2000-269035	20000905

L8 ANSWER 43 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:184821 CAPLUS  
 DOCUMENT NUMBER: 137:127446  
 TITLE: Reactivity, stability and electrochemical behavior of lithium iron phosphate  
 AUTHOR(S): Yang, Shoufeng; Song, Yanning; Zavalij, Peter Y.; Stanley Whittingham, M.  
 CORPORATE SOURCE: Department of Chemistry, State University of New York at Binghamton, Institute for Materials Research, Binghamton, NY, 13902-1600, USA  
 SOURCE: Electrochemistry Communications (2002), 4(3), 239-244  
 CODEN: ECCMF9; ISSN: 1388-2481  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 44 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:169249 CAPLUS  
 DOCUMENT NUMBER: 136:203096  
 TITLE: Method for preparation of **cathode** active material for nonaqueous electrolyte battery  
 INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Fukushima, Yuzuru  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1184920	A2	20020306	EP 2001-120637	20010830
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002075364	A2	20020315	JP 2000-261277	20000830
CN 1340869	A	20020320	CN 2001-135562	20010830
PRIORITY APPLN. INFO.:			JP 2000-261277 A	20000830

L8 ANSWER 45 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:139063 CAPLUS  
 DOCUMENT NUMBER: 136:170324  
 TITLE: Lithium secondary batteries with NASICON-type **cathode** active materials  
 INVENTOR(S): Fujiwara, Aiichiro; Shikoda, Masataka

PATENT ASSIGNEE(S): Toshiba Battery Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002056849	A2	20020222	JP 2000-240662	20000809
PRIORITY APPLN. INFO.:			JP 2000-240662	20000809

L8 ANSWER 46 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:138998 CAPLUS  
DOCUMENT NUMBER: 136:186643  
TITLE: Nonaqueous electrolyte secondary battery  
INVENTOR(S): Atsumi, Yoshinori; Yamamoto, Masahiro; Ohta, Yasuo  
PATENT ASSIGNEE(S): Sony Corporation, Japan  
SOURCE: Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1180811	A2	20020220	EP 2001-119842	20010816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002134112	A2	20020510	JP 2001-228239	20010727
PRIORITY APPLN. INFO.:			JP 2000-248672 A	20000818
			JP 2001-228239 A	20010727

L8 ANSWER 47 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:47912 CAPLUS  
DOCUMENT NUMBER: 136:105117  
TITLE: Lithium iron oxide **cathode** active mass for secondary lithium battery, its manufacture, and the battery  
INVENTOR(S): Kanzaki, Masao; Takeuchi, Yoji; Ukyo, Yoshio  
PATENT ASSIGNEE(S): Toyota Central Research and Development Laboratories, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002015735	A2	20020118	JP 2000-195894	20000629
PRIORITY APPLN. INFO.:			JP 2000-195894	20000629

L8 ANSWER 48 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:5196 CAPLUS  
DOCUMENT NUMBER: 136:281885  
TITLE: A LiTi2O4-LiFePO4 novel lithium-ion polymer battery  
AUTHOR(S): Persi, L.; Croce, F.; Scrosati, B.  
CORPORATE SOURCE: Dipartimento di Chimica, Universita di Roma "La Sapienza", Rome, 00185, Italy  
SOURCE: Electrochemistry Communications (2002), 4(1), 92-95

PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 49 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:796594 CAPLUS  
 DOCUMENT NUMBER: 135:333335  
 TITLE: Cathode active mass and batteries thereof  
 INVENTOR(S): Katayama, Sadahiro; Inamasu, Norio  
 PATENT ASSIGNEE(S): Yuasa Corporation, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001307726	A2	20011102	JP 2000-122550	20000424
PRIORITY APPLN. INFO.:			JP 2000-122550	20000424

L8 ANSWER 50 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:796403 CAPLUS  
 DOCUMENT NUMBER: 135:346864  
 TITLE: Cathode for nonaqueous electrolyte lithium ion battery  
 INVENTOR(S): Yamada, Atsuo; Yamahira, Takayuki  
 PATENT ASSIGNEE(S): Sony Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1150368	A2	20011031	EP 2001-109919	20010424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001307730	A2	20011102	JP 2000-128998	20000425
CA 2344981	AA	20011025	CA 2001-2344981	20010425
CN 1320976	A	20011107	CN 2001-117211	20010425
US 2002004169	A1	20020110	US 2001-842485	20010425
PRIORITY APPLN. INFO.:			JP 2000-128998 A	20000425

L8 ANSWER 51 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:779403 CAPLUS  
 DOCUMENT NUMBER: 136:120989  
 TITLE: Phase diagram of  $\text{Li}_x(\text{MnyFe}_{1-y})\text{PO}_4$  (0  $\leq x, y \leq 1$ )  
 AUTHOR(S): Yamada, Atsuo; Kudo, Yoshihiro; Liu, Kuang-Yu  
 CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation, Yokohama, 240-0036, Japan  
 SOURCE: Journal of the Electrochemical Society (2001), 148(10), A1153-A1158  
 CODEN: JESOAN; ISSN: 0013-4651  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 52 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:710111 CAPLUS  
DOCUMENT NUMBER: 135:275341  
TITLE: New lithium insertion electrode materials based on orthosilicate derivatives, electrochemical generators, and variable optical transmission devices having electrodes containing these materials  
INVENTOR(S): Armand, Michel; Michot, Christophe; Ravet, Nathalie; Simoneau, Martin; Hovington, Pierre  
PATENT ASSIGNEE(S): Hydro-Quebec, Can.; Centre National de la Recherche Scientifique (CNRS); Universite de Montreal  
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001266882	A2	20010928	JP 2000-117248	20000314
PRIORITY APPLN. INFO.:			JP 2000-117248	20000314

L8 ANSWER 53 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:691570 CAPLUS  
DOCUMENT NUMBER: 136:56310  
TITLE: Approaching theoretical capacity of LiFePO4 at room temperature at high rates  
AUTHOR(S): Huang, H.; Yin, S.-C.; Nazar, L. F.  
CORPORATE SOURCE: Department of Chemistry, University of Waterloo, Waterloo, ON, N2L G61, Can.  
SOURCE: Electrochemical and Solid-State Letters (2001), 4(10), A170-A172  
CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 54 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:673668 CAPLUS  
DOCUMENT NUMBER: 135:213489  
TITLE: Manufacture of cathode active mass and nonaqueous electrolyte batteries  
INVENTOR(S): Hosoya, Mamoru; Takahashi, Kimio; Miyaki, Yukio; Fukushima, Gen  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001250555	A2	20010914	JP 2000-65771	20000306
PRIORITY APPLN. INFO.:			JP 2000-65771	20000306

L8 ANSWER 55 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:646013 CAPLUS  
DOCUMENT NUMBER: 135:374007  
TITLE: Large-scale lithium-ion batteries for  
telecommunication power supplies  
AUTHOR(S): Takahashi, Masaya; Takei, Koji; Hayashi, Katsuya;  
Tobishima, Shinichi  
CORPORATE SOURCE: Telecommun. Energy Lab., NTT, Japan  
SOURCE: NTT R&D (2001), 50(8), 586-591  
CODEN: NTTDEC; ISSN: 0915-2326  
PUBLISHER: Denki Tsushin Kyokai  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: Japanese

L8 ANSWER 56 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:611253 CAPLUS  
DOCUMENT NUMBER: 135:306168  
TITLE: Hydrothermal synthesis of lithium iron phosphate  
cathodes  
AUTHOR(S): Yang, S.; Zavalij, P. Y.; Stanley Whittingham, M.  
CORPORATE SOURCE: Department of Chemistry, Binghamton University,  
Institute for Materials Research, Binghamton, NY,  
13902-1600, USA  
SOURCE: Electrochemistry Communications (2001), 3(9), 505-508  
CODEN: ECCMF9; ISSN: 1388-2481  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 57 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:607571 CAPLUS  
DOCUMENT NUMBER: 135:333294  
TITLE: Improved electrochemical performance of a  
LiFePO<sub>4</sub>-based composite cathode  
AUTHOR(S): Prosini, P. P.; Zane, D.; Pasquali, M.  
CORPORATE SOURCE: Facolta di Ingegneria, Dipartimento ICMMPM, Universita  
di Roma 'La Sapienza', Rome, Italy  
SOURCE: Electrochimica Acta (2001), 46(23), 3517-3523  
CODEN: ELCAAV; ISSN: 0013-4686  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 58 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:546963 CAPLUS  
DOCUMENT NUMBER: 135:291298  
TITLE: A high-rate, long-life, lithium nanocomposite polymer  
electrolyte battery  
AUTHOR(S): Croce, F.; Fiory, F. Serraino; Persi, L.; Scrosati, B.  
CORPORATE SOURCE: Dipartimento di Chimica, Universita "La Sapienza",  
Rome, 00185, Italy  
SOURCE: Electrochemical and Solid-State Letters (2001), 4(8),  
A121-A123  
CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 59 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:546025 CAPLUS  
 DOCUMENT NUMBER: 135:109741  
 TITLE: Preparation of lithium-based electrochemically active materials for lithium batteries  
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid  
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA  
 SOURCE: PCT Int. Appl., 97 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001054212	A1	20010726	WO 2000-US35302	20001222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1252671	A1	20021030	EP 2000-993800	20001222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EP 1309021	A2	20030507	EP 2003-2687	20001222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002039687	A1	20020404	US 2001-908480	20010718
US 2003077514	A1	20030424	US 2002-304890	20021125
PRIORITY APPLN. INFO.:				
US 2000-484799 A1 20000118 EP 2000-993800 A3 20001222 WO 2000-US35302 W 20001222				
REFERENCE COUNT:	16	THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 60 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:545615 CAPLUS  
 DOCUMENT NUMBER: 135:109740  
 TITLE: Preparation of lithium-containing materials for battery cathodes  
 INVENTOR(S): Barker, Jeremy; Saidi, M. Yazid; Swoyer, Jeffrey L.  
 PATENT ASSIGNEE(S): Valence Technology, Inc., USA  
 SOURCE: PCT Int. Appl., 94 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001053198	A1	20010726	WO 2000-US35438	20001222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 US 6528033 B1 20030304 US 2000-484919 20000118  
 EP 1252093 A1 20021030 EP 2000-989532 20001222  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2002086214 A1 20020704 US 2001-1376 20011019  
 PRIORITY APPLN. INFO.: US 2000-484919 A1 20000118  
 WO 2000-US35438 W 20001222  
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 61 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:526735 CAPLUS  
 DOCUMENT NUMBER: 135:259711  
 TITLE: Reaction mechanism of the olivine-type Lix  
 (Mn<sub>0.6</sub>Fe<sub>0.4</sub>)PO<sub>4</sub> (0 .ltoreq. x .ltoreq. 1)  
 AUTHOR(S): Yamada, Atsuo; Kudo, Yoshihiro; Liu, Kuang-Yu  
 CORPORATE SOURCE: Technical Support Center, Frontier Science  
 Laboratories, Yokohama, 240-0036, Japan  
 SOURCE: Journal of the Electrochemical Society (2001), 148(7),  
 A747-A754  
 CODEN: JESOAN; ISSN: 0013-4651  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 62 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:523697 CAPLUS  
 DOCUMENT NUMBER: 135:109707  
 TITLE: Nonaqueous electrolyte secondary batteries having high  
 capacity  
 INVENTOR(S): Yoshizawa, Hiroshi; Shirane, Takayuki; Nitta,  
 Yoshiaki; Okamura, Kazuhiro  
 PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001196059	A2	20010719	JP 1999-354328	19991214
US 6440606	B1	20020827	US 2000-699636	20001030
US 2002192551	A1	20021219	US 2002-194032	20020712
PRIORITY APPLN. INFO.:			JP 1999-309306	A 19991029
			JP 1999-354328	A 19991214
			US 2000-699636	A3 20001030

L8 ANSWER 63 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:498313 CAPLUS  
 DOCUMENT NUMBER: 135:139793  
 TITLE: Characterization of LiFePO<sub>4</sub> as the **cathode**  
 material for rechargeable lithium batteries  
 AUTHOR(S): Takahashi, M.; Tobishima, S.; Takei, K.; Sakurai, Y.  
 CORPORATE SOURCE: NTT Telecommunications Energy Laboratories,  
 Ibaraki-ken, Naka-gun, Tokai-mura, 319-1193, Japan  
 SOURCE: Journal of Power Sources (2001), 97-98, 508-511  
 CODEN: JPSODZ; ISSN: 0378-7753  
 PUBLISHER: Elsevier Science S.A.  
 DOCUMENT TYPE: Journal



LANGUAGE: English  
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 64 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:498312 CAPLUS  
DOCUMENT NUMBER: 135:275261  
TITLE: Electroactivity of natural and synthetic triphylite  
AUTHOR(S): Ravet, N.; Chouinard, Y.; Magnan, J. F.; Besner, S.;  
Gauthier, M.; Armand, M.  
CORPORATE SOURCE: Departement de Chimie, Universite de Montreal,  
Montreal, QC, Can.  
SOURCE: Journal of Power Sources (2001), 97-98, 503-507  
CODEN: JPSODZ; ISSN: 0378-7753  
PUBLISHER: Elsevier Science S.A.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:498311 CAPLUS  
DOCUMENT NUMBER: 135:275260  
TITLE: The source of first-cycle capacity loss in LiFePO<sub>4</sub>  
AUTHOR(S): Andersson, A. S.; Thomas, J. O.  
CORPORATE SOURCE: Angstrom Laboratory, Materials Chemistry, Uppsala  
University, Uppsala, SE-751 21, Swed.  
SOURCE: Journal of Power Sources (2001), 97-98, 498-502  
CODEN: JPSODZ; ISSN: 0378-7753  
PUBLISHER: Elsevier Science S.A.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 66 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:435589 CAPLUS  
DOCUMENT NUMBER: 138:224054  
TITLE: Influence of the structure on the electrochemical  
performance of lithium transition metal phosphates as  
cathodic materials in rechargeable lithium batteries:  
a new high-pressure form of LiMPO<sub>4</sub> (M = Fe and Ni).  
[Erratum to document cited in CA135:63689]  
AUTHOR(S): Garcia-Moreno, O.; Alvarez-Vega, M.; Garcia-Alvarado,  
F.; Garcia-Jaca, J.; Gallardo-Amores, J. M.; Sanjuan,  
M. L.; Amador, U.  
CORPORATE SOURCE: Departamento de Quimica Inorganica y Materiales  
Facultad de Ciencias Experimentales y Tecnicas,  
Universidad San Pablo-CEU, Madrid, 28668, Spain  
SOURCE: Chemistry of Materials (2001), 13(7), 2455  
CODEN: CMATEX; ISSN: 0897-4756  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L8 ANSWER 67 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:280643 CAPLUS  
DOCUMENT NUMBER: 134:283304  
TITLE: Nonaqueous electrolyte batteries  
INVENTOR(S): Yamada, Atsuo; Horie, Takeshi; Yamada, Shinichiro;  
Noda, Kazuhiro  
PATENT ASSIGNEE(S): Sony Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001110455	A2	20010420	JP 1999-289782	19991012
PRIORITY APPLN. INFO.:			JP 1999-289782	19991012

L8 ANSWER 68 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:280615 CAPLUS  
DOCUMENT NUMBER: 134:298399  
TITLE: Cathode active mass containing lithium iron phosphate and secondary lithium battery using it  
INVENTOR(S): Takahashi, Masaya; Tobishima, Shinichi; Takei, Koji; Sakurai, Yoji  
PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001110414	A2	20010420	JP 1999-282445	19991004
PRIORITY APPLN. INFO.:			JP 1999-282445	19991004

L8 ANSWER 69 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:280346 CAPLUS  
DOCUMENT NUMBER: 134:268841  
TITLE: Cathode activator for lithium secondary battery  
INVENTOR(S): Honbo, Kyoko; Gotoh, Akihiro; Kasai, Masahiro; Muranaka, Yasushi; Hotta, Yoshiji  
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan  
SOURCE: Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1093172	A1	20010418	EP 2000-121347	20001010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001110421	A2	20010420	JP 1999-291945	19991014
US 6458488	B1	20021001	US 2000-689797	20001013
PRIORITY APPLN. INFO.:			JP 1999-291945	A 19991014
REFERENCE COUNT:	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 70 OF 89 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:260632 CAPLUS  
DOCUMENT NUMBER: 135:63689  
TITLE: Influence of the structure on the electrochemical performance of lithium transition metal phosphates as cathodic materials in rechargeable lithium batteries: a new high-pressure form of LiMPO<sub>4</sub> (M = Fe and Ni)  
AUTHOR(S): Garcia-Moreno, O.; Alvarez-Vega, M.; Garcia-Alvarado,

F.; Garcia-Jaca, J.; Gallardo-Amores, J. M.; Sanjuan, M. L.; Amador, U.  
 CORPORATE SOURCE: Departamento de Quimica Inorganica y Materiales  
 Facultad de Ciencias Experimentales y Tecnicas,  
 SOURCE: Universidad San Pablo-CEU, Madrid, 28668, Spain  
 Chemistry of Materials (2001), 13(5), 1570-1576  
 CODEN: CMATEX; ISSN: 0897-4756  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 71 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:222924 CAPLUS  
 DOCUMENT NUMBER: 134:329012  
 TITLE: Optimized LiFePO4 for lithium battery cathodes  
 AUTHOR(S): Yamada, A.; Chung, S. C.; Hinokuma, K.  
 CORPORATE SOURCE: Frontier Science Laboratories, Sony Corporation,  
 Yokohama, 240-0036, Japan  
 SOURCE: Journal of the Electrochemical Society (2001), 148(3),  
 A224-A229  
 CODEN: JESOAN; ISSN: 0013-4651  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 72 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:221503 CAPLUS  
 DOCUMENT NUMBER: 135:35141  
 TITLE: Lithium insertion into rhombohedral Li3Fe2(PO4)3  
 AUTHOR(S): Andersson, A. S.; Kalska, B.; Eyob, P.; Aernout, D.;  
 Haggstrom, L.; Thomas, J. O.  
 CORPORATE SOURCE: Angstrom Laboratory, Inorganic Chemistry, Uppsala  
 University, Uppsala, SE-751 21, Swed.  
 SOURCE: Solid State Ionics (2001), 140(1,2), 63-70  
 CODEN: SSIOD3; ISSN: 0167-2738  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 73 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:739719 CAPLUS  
 DOCUMENT NUMBER: 133:298822  
 TITLE: Synthesis of LiFePO4 and manufacture of nonaqueous  
 electrolyte batteries  
 INVENTOR(S): Li, Guohua; Yamada, Atsuo  
 PATENT ASSIGNEE(S): Sony Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000294238	A2	20001020	JP 1999-99409	19990406
PRIORITY APPLN. INFO.:			JP 1999-99409	19990406

L8 ANSWER 74 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:71270 CAPLUS  
 DOCUMENT NUMBER: 132:125274  
 TITLE: Thermal stability of LiFePO<sub>4</sub>-based cathodes  
 AUTHOR(S): Andersson, Anna S.; Thomas, John O.; Kalska, Beata; Haggstrom, Lennart  
 CORPORATE SOURCE: Department of Inorganic Chemistry Angstrom Laboratory, Uppsala University, Uppsala, SE-751 21, Swed.  
 SOURCE: Electrochemical and Solid-State Letters (2000), 3(2), 66-68  
 CODEN: ESLEF6; ISSN: 1099-0062  
 PUBLISHER: Electrochemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 75 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1999:745717 CAPLUS  
 DOCUMENT NUMBER: 132:38039  
 TITLE: Supercapacitors and batteries  
 AUTHOR(S): Goodenough, J. B.; Lee, Hee Y.; Manivannan, V.  
 CORPORATE SOURCE: Texas Materials Institute, ETC 9.102, University of Texas at Austin, Austin, TX, 78712-1063, USA  
 SOURCE: Materials Research Society Symposium Proceedings (1999), 548(Solid State Ionics V), 655-665  
 CODEN: MRSPDH; ISSN: 0272-9172  
 PUBLISHER: Materials Research Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 76 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1999:307887 CAPLUS  
 DOCUMENT NUMBER: 130:314395  
 TITLE: New lithium insertion electrode materials based on tetraoxyanions derivatives with olivine structure  
 INVENTOR(S): Simoneau, Martin; Armand, Michel; Choquette, Yves; Zaghib, Karim  
 PATENT ASSIGNEE(S): Hydro-Quebec, Can.  
 SOURCE: Can. Pat. Appl., 5 pp.  
 CODEN: CPXXEB  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2200998	AA	19980925	CA 1997-2200998	19970325
PRIORITY APPLN. INFO.:			CA 1997-2200998	19970325

L8 ANSWER 77 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1999:131181 CAPLUS  
 DOCUMENT NUMBER: 130:211706  
 TITLE: Lithium metal phosphate cathodes for Li secondary batteries  
 AUTHOR(S): Butt, G. P.; Sammes, N. M.; Yamamoto, O.; Takeda, Y.; Imanishi, N.  
 CORPORATE SOURCE: Department Technology, University Waikato, Hamilton, N. Z.  
 SOURCE: Journal of the Australasian Ceramic Society (1998), 34(1), 60-65

PUBLISHER: CODEN: JAUSEL; ISSN: 1018-6689  
 Australasian Ceramic Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 78 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:791699 CAPLUS  
 DOCUMENT NUMBER: 130:54723  
 TITLE: Cathodes for lithium-ion batteries: some comparisons  
 AUTHOR(S): Goodenough, John B.; Manivannan, Venkatesan  
 CORPORATE SOURCE: Texas Materials Institute, University of Texas at  
 Austin, Austin, TX, 78712-1063, USA  
 SOURCE: Denki Kagaku oyobi Kogyo Butsuri Kagaku (1998),  
 66(12), 1173-1181  
 CODEN: DKOKAZ; ISSN: 0366-9297  
 PUBLISHER: Denki Kagakkai  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 79 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:509379 CAPLUS  
 DOCUMENT NUMBER: 129:191547  
 TITLE: Nonaqueous-electrolyte lithium secondary battery  
 having high discharge capacity  
 INVENTOR(S): Nagata, Mikito; Karril, Amin; Tsukamoto, Kotobuki  
 PATENT ASSIGNEE(S): Japan Storage Battery Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10208730	A2	19980807	JP 1997-25985	19970124
PRIORITY APPLN. INFO.:			JP 1997-25985	19970124

L8 ANSWER 80 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:404670 CAPLUS  
 DOCUMENT NUMBER: 129:97673  
 TITLE: Characteristics of 3D framework cathodes with (XO<sub>4</sub>)<sup>n</sup>-  
 polyanions  
 AUTHOR(S): Okada, S.; Arai, H.; Asakura, K.; Sakurai, Y.; Yamaki,  
 J.; Nanjundaswamy, K. S.; Padhi, A. K.; Masquelier,  
 C.; Goodenough, J. B.  
 CORPORATE SOURCE: NTT Integrated Information and Energy Systems  
 Laboratories, Ibaraki, 319-11, Japan  
 SOURCE: Progress in Batteries & Battery Materials (1997), 16,  
 302-308  
 CODEN: PBBMEF; ISSN: 1099-4467  
 PUBLISHER: ITE-JEC Press Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 81 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:221666 CAPLUS  
 DOCUMENT NUMBER: 129:20826

TITLE: New **cathode** materials for rechargeable  
lithium batteries: the 3-D framework structures  
Li<sub>3</sub>Fe<sub>2</sub>(XO<sub>4</sub>)<sub>3</sub> (X = P, As)

AUTHOR(S): Masquelier, C.; Padhi, A. K.; Nanjundaswamy, K. S.;  
Goodenough, J. B.

CORPORATE SOURCE: Center for Materials Science and Engineering,  
University of Texas at Austin, Austin, TX, 78712-1063,  
USA

SOURCE: Journal of Solid State Chemistry (1998), 135(2),  
228-234  
CODEN: JSSCBI; ISSN: 0022-4596

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 82 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:197714 CAPLUS

DOCUMENT NUMBER: 128:232794

TITLE: Lithium-containing, lithium-intercalating phosphates  
and their use as electrode material in secondary  
lithium-ion battery

INVENTOR(S): Barker, Jeremy; Saidi, Mohamed-Yazid

PATENT ASSIGNEE(S): Valence Technology, Inc., USA; Barker, Jeremy; Saidi,  
Mohamed-Yazid

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9812761	A1	19980326	WO 1997-US15544	19970904
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5871866	A	19990216	US 1996-717979	19960923
AU 9744102	A1	19980414	AU 1997-44102	19970904
EP 931361	A1	19990728	EP 1997-942393	19970904
EP 931361	B1	20011205		
R: DE, ES, FR, GB, IT, IE				
JP 2001500665	T2	20010116	JP 1998-514693	19970904
EP 1093174	A1	20010418	EP 2001-200220	19970904
R: DE, ES, FR, GB, IT, IE				
ES 2169425	T3	20020701	ES 1997-942393	19970904
KR 2000036230	A	20000626	KR 1999-702302	19990318
HK 1023850	A1	20020823	HK 2000-100559	20000128
US 2001021472	A1	20010913	US 2001-776843	20010205
PRIORITY APPLN. INFO.:				
			US 1996-717979	A1 19960923
			EP 1997-942393	A3 19970904
			WO 1997-US15544	W 19970904
			US 1998-204944	A1 19981203

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 83 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:718093 CAPLUS  
 DOCUMENT NUMBER: 128:5716  
 TITLE: Cathode materials for secondary alkali metal-ion and lithium-ion batteries  
 INVENTOR(S): Goodenough, John B.; Padhi, Akshaya; Nanjundaswamy, K. S.; Masquelier, Christian  
 PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9740541	A1	19971030	WO 1997-US6671	19970423
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 904607	A1	19990331	EP 1997-923437	19970423
R: DE, FR, GB, IT				
JP 2000509193	T2	20000718	JP 1997-538259	19970423
PRIORITY APPLN. INFO.:			US 1996-16060P	P 19960423
			US 1996-32346P	P 19961204
			WO 1997-US6671	W 19970423

L8 ANSWER 84 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1997:469779 CAPLUS  
 DOCUMENT NUMBER: 127:97562  
 TITLE: Cathode active mass for lithium secondary batteries and the batteries  
 INVENTOR(S): Hikuma, Koichiro  
 PATENT ASSIGNEE(S): Sony Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09171827	A2	19970630	JP 1995-350114	19951221
JP 3319258	B2	20020826		
PRIORITY APPLN. INFO.:			JP 1995-350114	19951221

L8 ANSWER 85 OF 89 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1997:399650 CAPLUS  
 DOCUMENT NUMBER: 127:37234  
 TITLE: Nonaqueous electrolyte secondary batteries with alkali metal-contg. iron mixed oxide cathodes  
 INVENTOR(S): Okada, Shigeto; Arai, So; Masashiro, Takahisa; Otsuka, Hideaki; Sakurai, Yoji; Yamaki, Junichi  
 PATENT ASSIGNEE(S): Nippon Telegraph and Telephone Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09134725	A2	19970520	JP 1995-311699	19951107

L8 ANSWER 86 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:305747 CAPLUS

DOCUMENT NUMBER: 126:345317

TITLE: Phospho-olivines as positive-electrode materials for rechargeable lithium batteries

AUTHOR(S): Padhi, A. K.; Nanjundaswamy, K. S.; Goodenough, J. B.

CORPORATE SOURCE: Center for Materials Science and Engineering, The University of Texas at Austin, Austin, TX, 78712-1063, USA

SOURCE: Journal of the Electrochemical Society (1997), 144(4), 1188-1194

CODEN: JESOAN; ISSN: 0013-4651

PUBLISHER: Electrochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 87 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:703028 CAPLUS

DOCUMENT NUMBER: 126:9975

TITLE:  $\text{Li}_3\text{Fe}_2(\text{XO}_4)_3$ , (X = P, As): Three framework structures as hosts for the reversible insertion of lithium

AUTHOR(S): Masquelier, C.; Padhi, A. K.; Nanjundaswamy, K. S.;

Okada, S.; Goodenough, J. B.

CORPORATE SOURCE: Center Materials Science and Engineering, University Texas, Austin, TX, 78712-1063, USA

SOURCE: Proceedings of the Power Sources Conference (1996), 37th, 188-191

CODEN: PPOCFD

PUBLISHER: National Technical Information Service

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 88 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:703026 CAPLUS

DOCUMENT NUMBER: 126:20866

TITLE: Lithium intercalation into NASICON [ $\text{Na}^+$  superionic conductor]-type mixed phosphates:  $\text{TiNb}(\text{PO}_4)_3$  $\text{LiFeNb}(\text{PO}_4)_3$  and  $\text{Li}_2\text{FeTi}(\text{PO}_4)_3$ 

AUTHOR(S): Padhi, A. K.; Nanjundaswamy, K. S.; Masquelier, C.;

Goodenough, J. B.

CORPORATE SOURCE: Center Materials Science and Engineering, University Texas, Austin, TX, 78712-1063, USA

SOURCE: Proceedings of the Power Sources Conference (1996), 37th, 180-185

CODEN: PPOCFD

PUBLISHER: National Technical Information Service

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 89 OF 89 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:122498 CAPLUS

DOCUMENT NUMBER: 124:207044

TITLE:  $\text{Fe}_2(\text{SO}_4)_3$  as a cathode material for rechargeable lithium batteries

AUTHOR(S): Okada, S.; Nanjundaswamy, K. S.; Manthiram, A.;

Goodenough, J. B.; Ohtsuka, H.; Arai, H.; Yamaki, J.

CORPORATE SOURCE: Center Materials Science &amp; Engineering, University Texas, Austin, TX, USA

SOURCE: Proceedings of the Power Sources Conference (1994), 36th, 110-113

CODEN: PPOCFD

PUBLISHER: U.S. Army Research Laboratory, Electronics &amp; Power



DOCUMENT TYPE:  
LANGUAGE:

Sources Directorate, Power Sources Division  
Journal  
English